

Jacaranda Maths 10 software

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Apple version (Ile, Iic, IIGs)

Requirements: 64k, mono or color screen, one disk drive, printer (optional)

Introduction

These programs complement a number of sections in the textbook. They are written so that the main aspects of each program are easily accessible to students, with the "housekeeping" routines (for example input, title screen and error trapping) kept out of the way. Applesoft BASIC is used throughout.

They are certainly not intended as models of good programming; rather, students with an elementary understanding of BASIC can (and should) modify them to explore different aspects of each topic. In doing so they would be wise to restrict their attention to the body of the program, which is enclosed between lines of asterisks.

Because of their accessibility, these programs are not particularly "crash-proof" or elegant in their operation. Many likely errors have been foreseen, but there will be occasions where obscure messages appear telling of the program's inadequacy. Herein lie opportunities for exploration of the limits of computers, programs and algorithms.

Operation

The programs are listed in the menu. To obtain the menu, follow the instructions in the *Getting started* section.

The programs are numbered according to the section they complement in the textbook. (This is why the graphing program is listed twice.) Use the cursor (arrow) keys to move the highlight bar. Pressing the **ENTER** key will select whichever program is highlighted.

Once a program is loaded its title screen will appear. At this point there are two obvious choices: press **SPACE** to begin using the program, or **M** to return to the menu.

A third possibility is to press **Ctrl** and **C** (sometimes followed by **ENTER**). This will stop the program so that it can be listed and/or modified.

Please note that some programs have print facilities available. The software assumes a printer is connected and that the printer card is in slot #1. In the graph program (12.1 and 13.3) the graphics dump routines of the printer card are used.

If you experience problems using these with your particular card, consult your manual and modify lines 1800 and 1810 accordingly.

Installation

Warning: You may make as many copies of this disk as you wish for use within your educational institution, but no copies may be distributed or sold outside your institution. Such an action is a breach of copyright law and will be dealt with as such.

Full instructions on copying the disk are available in the computer's operating manual, or contact Jacaranda Software for further information. Please make and use a backup copy. The original disk should *only* be used to make backup copies.

Getting started

1. Put the disk in drive 1 and switch on the computer. (If the computer is already switched on, tap **RESET** while holding down the **Ctrl** and **Open-Apple** keys.)
2. When the red light on the disk drive is glowing, shut the drive door.
3. After the ProDOS screen, the menu will appear.

Program structure

<i>Lines</i>	<i>Subroutine</i>
1 - 99	title and initialisation
100 - 9999	main body of program
50000 - 50200	title screen
50300 - 50500	space bar routine
60000 - 60999	general input
61000 - 61999	GET routine

Other lines may be used for subroutines specific to each program.